

RACE: Overview

Overview – some training highlights from 2014 - 2018

Our national level PhD training programme is unique within UK rheumatology.

- Our first cadre of four students graduated on time with some highlights e.g. with *Wood* recommended for Newcastle University's Faculty prize, *Cosway* publishing beautiful paper in JEM defining the thymic role in RA tolerance

Generated a cohort of 17 clinical PhD fellows

Supporting >12 post-doctoral fellowships



Overview – strategic and operational exemplars from 2014 - 2018

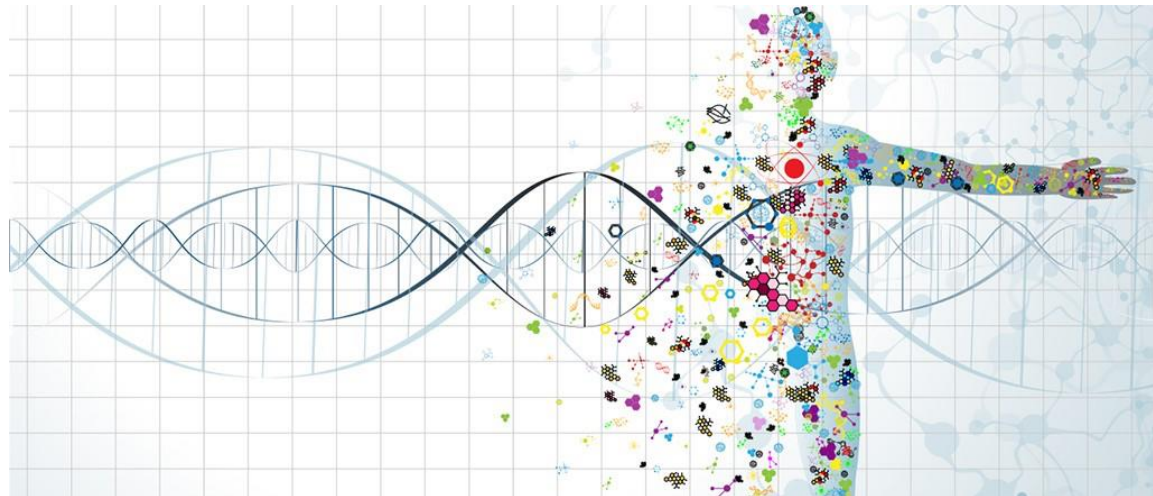
- Leveraged at least £10.3 million additional shared awards
 - £75M in grants which contribute to RACE community as of 2018
- Shared 9 scientific workshops and two international advisory board meetings
- Received research prizes at international congresses
 - e.g. two EULAR best abstract prizes 2018
- Created a culture of inclusive, intellectually generous, ambitious and collaborative science that permeates all of our activities.
 - Published 181 scientific papers.



Overview – some scientific highlights from 2014 - 2018

Precision medicine programme e.g.

- Gene signature in 50% of early RA patients that predicts poor response to initial therapy
- Epigenomic signature in early RA patients that predicts response to methotrexate
- Multiomic 'signature' that predicts subsequent flare in RA patients in sustained remission
- Identification of subsets of fibroblasts that drive inflammation and damage .. new drug targets!



Overview – some scientific highlights from 2014 - 2018

Early phase experimental medicine studies e.g.

- Clinical trial of cyclin dependent kinase inhibitor to target fibroblasts (**TRAFIC**).
- First comparison of anti B cell with anti TNF therapy (**ORBIT**).
- Experimental medicine study to understand the basis of remission and flare (**BIOFLARE**).

- **Renewed 24th July 2019.**
- **Award of £1,999,996.70.**
- **Runs to 31st March 2024.**

RESEARCH INTO
INFLAMMATORY
ARTHRITIS CENTRE
**VERSUS
ARTHRITIS**

RACE2: Overview

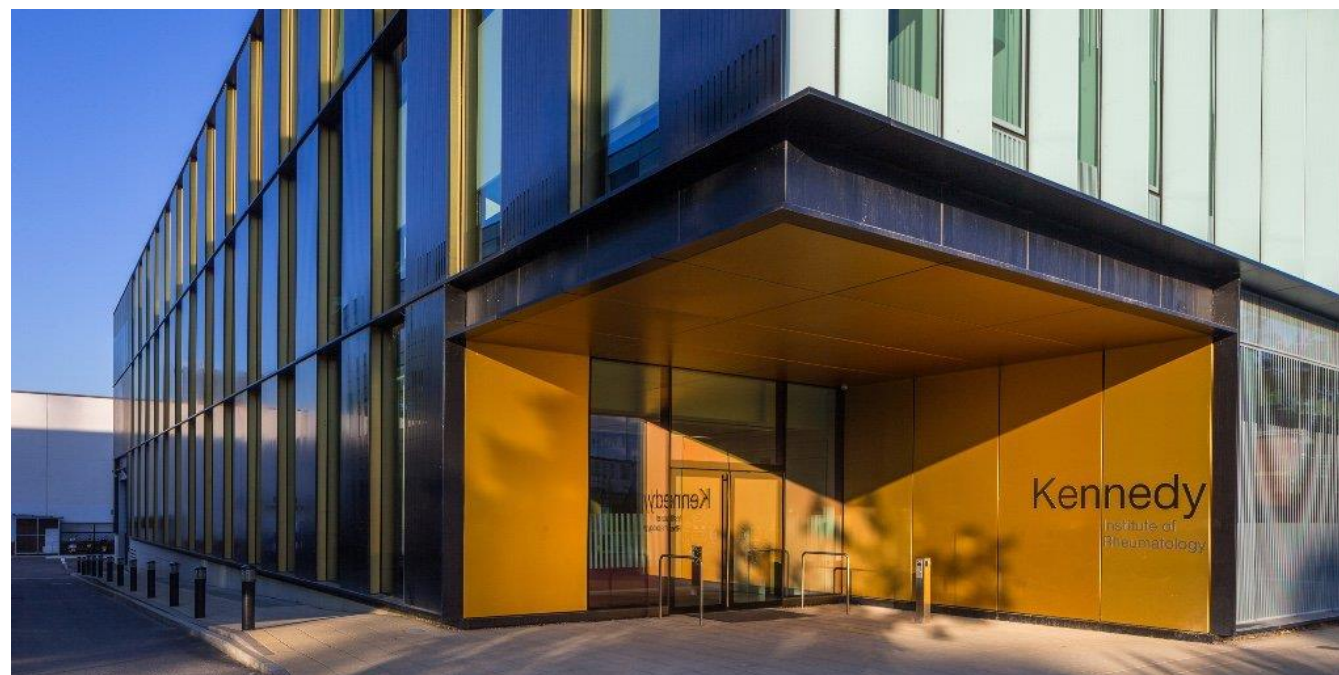
**VERSUS
ARTHRITIS**

UNIVERSITY OF
BIRMINGHAM



Arthritis Research UK Rheumatoid Arthritis Pathogenesis Centre of Excellence – RACE - is part-funded by Arthritis Research UK through grant number 20298. The Centre is a collaboration between the Universities of Glasgow, Newcastle and Birmingham.

What's new?



What's new?

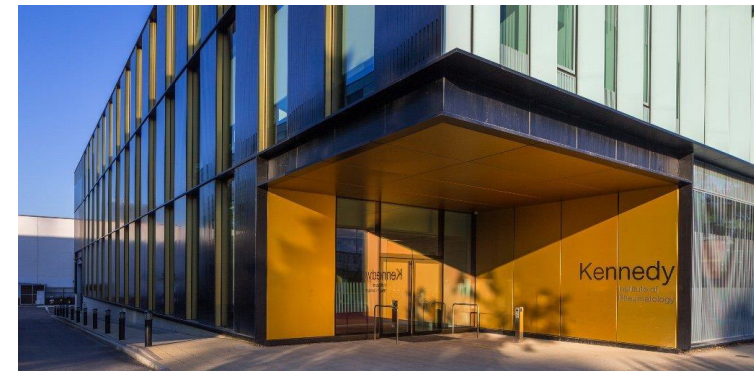
What defines “difficult to treat” arthritis?

How can we make it *less* difficult to treat?

What determines remission vs. flare?

What's new?

Our patient partners.





Prof Iain McInnes
Prof Paul Garside
Prof Carl Goodyear
Prof Simon Milling
Prof Gerard Graham
Prof James Brewer
Prof Margaret Harnett
Prof Michael Barrett

Dr Stefan Siebert
Dr Mariola Kurowska-Stolarska
Dr Thomas Otto
Dr Miguel Pineda
Dr Ruaidhri Carmody
Dr Vicky Morrison
Dr Robert Benson
Dr Megan McLeod



**UNIVERSITY OF
OXFORD**

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Prof Michael Dustin
Prof Irina Udalova
Prof Mark Coles
Prof Kim Midwood
Prof Fiona Powrie
Prof Peter Taylor

Dr Yoshifumi Itoh
Dr Richard Williams
Dr Tal Arnon
Dr Stephen Sansom



Prof Karim Raza
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Prof Graham Anderson
Prof Janet Lord
Prof Martin Hewison
Prof David Wraith
Prof Dagmar Scheel-Toellner

Dr Andrew Filer
Dr Helen McGettrick
Dr David Withers
Dr Paola de Pable
Dr Francesca Barone
Dr Benjamin Fisher
Dr Amy Naylor
Dr Rowan Hardy
Dr Jane Falconer
Dr Stephen Young
Dr Marie Falahee



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Prof John Isaacs
Prof Catharien Hilkens
Prof Wan-Fai Ng
Prof Andy Melor

Dr Arthur Pratt
Dr Amy Anderson
Dr Ken Baker
Dr Faye Cooles
Dr Gary Reynolds
Dr Lei Huang



**Newcastle
University**